

ABSTRACT

A valve assembly provides the ability for internal tank operations providing novel and unique methods for intricate measurement, monitoring, sampling, mixing, isolation, evaluation or other tasks desired inside tanks, vessels, piping or flow applications. The valve assembly is supported by the sidewall of the vessel and extends into a cavity of the vessel. The valve assembly including a barrel and a valve member. The barrel has a wall defining a chamber. The wall has at least one opening. The valve member is movable between a closed position and an open position.